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## MONTHLY REPORT

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Contract Number: NAS 9-13303

## QUANTITATIVE DETERMINATION OF STRATOSPHERIC AEROSOL CHARACTERISTICS

Progress and problems through July 16, 1974 were reported verbally as part of our visit to NASA JSC for the PI conference July 16-18, 1974.

We have continued to develop the S192 read routine to extract only the pertinent data (wavelengths, pixels, and scans) from the series of data blocks. We have stopped development of the S191 read and calibration software; our counterparts within the Earth Observation Division of NASA JSC have offered to share the Univac 1108 version of the routines after they have been developed. Since much time and talent is being expended there, we find it more cost effective to accept their offer.

The software malfunction we previously reported in May has been resolved by a variation of the mathematics involved. The routine now inverts the brightness intensity signature to a vertical attenuation coefficient profile for 180° backscatter.

At the instruction of PIMO we are revising our cost proposal to reflect the added expenses due to delay in the receipt of the data and the necessary extension of the contract period. We initially had planned for an eighteen month period for data analysis and interpretation. We are informed that the data is now to arrive by January 1, 1975. With the contract scheduled to terminate June 30, 1975, about 4-1/2 months would be left for data analysis at the most, recognizing the requirement that the final report be submitted thirty days prior to the end of the contract. This is not realistic. The extension of the contract to September 30, 1975 would extend data analysis to 7-1/2 months maximum. This is very marginal. We would expect in order to fulfill the contract by September 30, 1975, as suggested as a possibility by PIMO, that most of the data would arrive before the January 1, 1975 date. This also does not allow for treatment of as yet unforeseen data problems such as have been experienced by NASA to date.

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